| Essential Learning | # | Components | Suggested | |
| --- | --- | --- | --- | --- |
| Activities | Assessments |
| **VCS T 3.1 Understand the ethical, cultural, and societal issues related to technology**  AK Standard: E1, E2, E3, E4, E5, E6, E7, E8  ISTE Standard: 5a, 5b, 5c, 5d | VCS 3.1.1 | Evaluate ways that technology impacts culture and the environment | Identify the uses of technology in the home, workplace, and school  Explain how advances in technology have improved quality of life | Teacher observation  Oral quiz  Skills checklist |
|  | VCS 3.1.2 | Practice responsible use of technology systems, information, and software | Read and discuss the Acceptable Use Policy and how it translates to the classroom rules  Understand the principles of “netiquette” and personal safety on the internet  Discuss consequences of misuse or abuse of technology  View and discuss online technology ethics story |
|  | VCS 3.1.3 | Develop positive attitudes towards technology use that supports lifelong learning, collaboration, personal pursuits, and productivity | Use the school and teacher web pages to access school related information about activities, assignments, and grades |
| **VCS T 3.2 Utilize basic input devices**  AK Standard: A1  ISTE Standard: 6a | VCS  3.2.1 | Use appropriate mouse skills | Demonstrate point, click, drag, drag-and-drop and double-click using mouse  Demonstrate right-click and/or control-click  Recognize mouse icons: I-beam, arrow, active link, wait icon | Skills checklist  Teacher observation  Typing program feedback  Project Rubric |
|  | VCS 3.2.2 | Use appropriate keyboarding skills and techniques | Apply the keyboard shortcuts for save, quit, logout, and new  View a presentation on appropriate keyboard posture  Locate and practice keying the home row, QWERTY row, and ZXCVB row  Key at 90% accuracy rate at10-15 words per minute by the end of the year  Begin to key rhythmically  Understand the concept of automatic text wrapping at the end of a line |
|  | VCS  3.2.3 | Use the keyboard to provide input to applications, software, and the internet | Color a paper keyboard to locate specific keys (return, space bar, numbers, arrows, delete, period, shift, question mark, comma, tab, home row, QWERTY row, and ZXCVB row)  Create typewritten documents  Navigate and input text into spreadsheet cells  Enter text in a search engine to locate information or a URL |
| **VCS T 3.3 Demonstrate an understanding of technology concepts, systems, and operations**  AK Standard: A1, A2, A3, A4, A5  ISTE Standard: 6a, 6b, 6c, 6d | VCS 3.3.1 | Recognize, define, and use technology terms, processes and systems | Use the terms cursor, highlight, menu, dock, export, copy, paste, webpage, and hyperlink appropriately  Identify the basic internal components of the computer: CD/DVD drive, processor, fan, power supply  Identify removable storage devices: flash drive, CD/DVD  Understand the purpose and function of a server  Use a digital camera to take pictures with assistance  Understand that the internet is made up of interconnected computers | Teacher observation  Skills checklist  Oral quiz |
|  | VCS 3.3.2 | Select and use applications effectively and productively | Use the toolbar or formatting palette to format text: bold, center, font size, and typeface  Insert and modify the header in a document  Display toolbars to use the thesaurus/dictionary, spelling, and grammar check functions in programs  Understand how to open, close, minimize, maximize, and restore a window  Understand the difference between the “Save” and “Save as” menu items, and apply them appropriately  Use the undo function within programs  Create and name folders on the desktop  Save pictures from the internet onto the desktop using the drag-and-drop technique  Use grade-appropriate online digital math tools  Insert a three-column table into a document  Print to the appropriate printer location |
|  | VCS 3.3.3 | Diagnose and solve common technology problems | Demonstrate correct method for plugging and unplugging headphones, mouse and keyboard  Restart or reboot computer when system freezes, locks up or crashes, with assistance from teacher  Identify and correct common errors made during the login process: caps lock on, extra spaces, misspelled usernames and passwords  Determine when an application is responding normally and when it needs to be quit and restarted |
| **VCS T 3.4 Demonstrate creative thinking and innovation**  AK Standard: D1  ISTE Standard: 1a, 1b, 1c, 1d | VCS 3.4.1 | Apply knowledge to develop new products using technology | Collect data and create a table or diagram to show the favorite foods of the class  Use a spreadsheet program to enter data and create a graph  Create a timeline to show events in the history of Jamestown | Project Rubric  Skills checklist |
|  | VCS 3.4.2 | Create original products to convey ideas or as personal or group expression | Create a rebus story  Create a graphic organizer as a pre-writing activity to sequence events in the story  Write poems and combine them into a book to share with others  Create and export a picture using drawing software for use in another program |
|  | VCS 3.4.3 | Explore issues or ideas using models or simulations | Participate in online weather simulation  Participate in online mummy-building model |
| **VCS T 3.5 Use digital media and environments to communicate and work collaboratively**  AK Standard: D2, D3  ISTE Standard: 2a, 2b, 2c, 2d | VCS 3.5.1 | Convey ideas to a variety of audiences using digital media and tools | Create a presentation on a pet  Create a presentation on a famous person of their choice  Submit a completed digital product for publishing | Project Rubric  Teacher observation |
|  | VCS 3.5.2 | Contribute to project teams to produce original works or solve problems | Create and label a diagram of an ocean animal in small groups  Create and label a diagram showing the processes of the rock cycle in small groups  Problem-solve to find solutions and give technical support to their own group and others |
|  | VCS 3.5.3 | Use technology to interact with others to create cultural and global awareness | View a reenactment of Jamestown and post a question to an appropriate message board site |
| **VCS T 3.6 Apply digital tools to gather, evaluate and use information**  AK Standard: B1, B2, B3  ISTE Standard: 3b, 3c, 3d | VCS 3.6.1 | Use technology to locate, evaluate, select, and manage information and sources | Use a multimedia resource to support learning: interactive books, online encyclopedia, and search engines  Conduct a simple or limited search or image search  Navigate teacher-approved websites  Bookmark websites for later retrieval of information | Teacher observation  Oral quiz  Skills checklist |
|  | VCS 3.6.2 | Ethically use information from a variety of sources to process and present results | Understand the basic proper use of copyrighted materials  Discuss plagiarism and piracy |
|  | VCS 3.6.3 | Evaluate and select new resources and technology based on the appropriateness to specific tasks | Make informed decisions when choosing appropriate resources  Analyze an online resource to determine its credibility |
| **VCS T 3.7 Use critical thinking skills to solve problems and make decisions**  AK Standard: C1, C2, C3  ISTE Standard: 4a, 4b, 4c, 4d | VCS 3.7.1 | Plan and conduct research for investigation of authentic problems | Use online resources (news web sites, organization web sites, etc.) to research a current event | Skills checklist  Teacher observation  Project Rubric |
|  | VCS 3.7.2 | Plan and develop solutions individually or with others to answer a question or complete a project | Draw a picture or write a paragraph that shows how to solve a problem in the school or community  Assist others in answering questions pertaining to projects |
|  | VCS 3.7.3 | Derive meaning by evaluating, combining, or extending information using multiple technologies | Create a slideshow presentation that includes digital photos and student-created drawings |